

FIG. 1A

SIGNAL CLEAVAGE SITE

↓

M G K F T V V V A A L L L G A V R A E - G S S -

L G G D L A - P Q M L R E L Q E T N A A L Q D V R E L L R Q Q V K E I I T F L K N T V M E C D A C G - M Q P A R T P G T S -

P Q P Q P K P Q P Q P Q P K P E P E - G T G S S E - K D E L

FIG. 1B

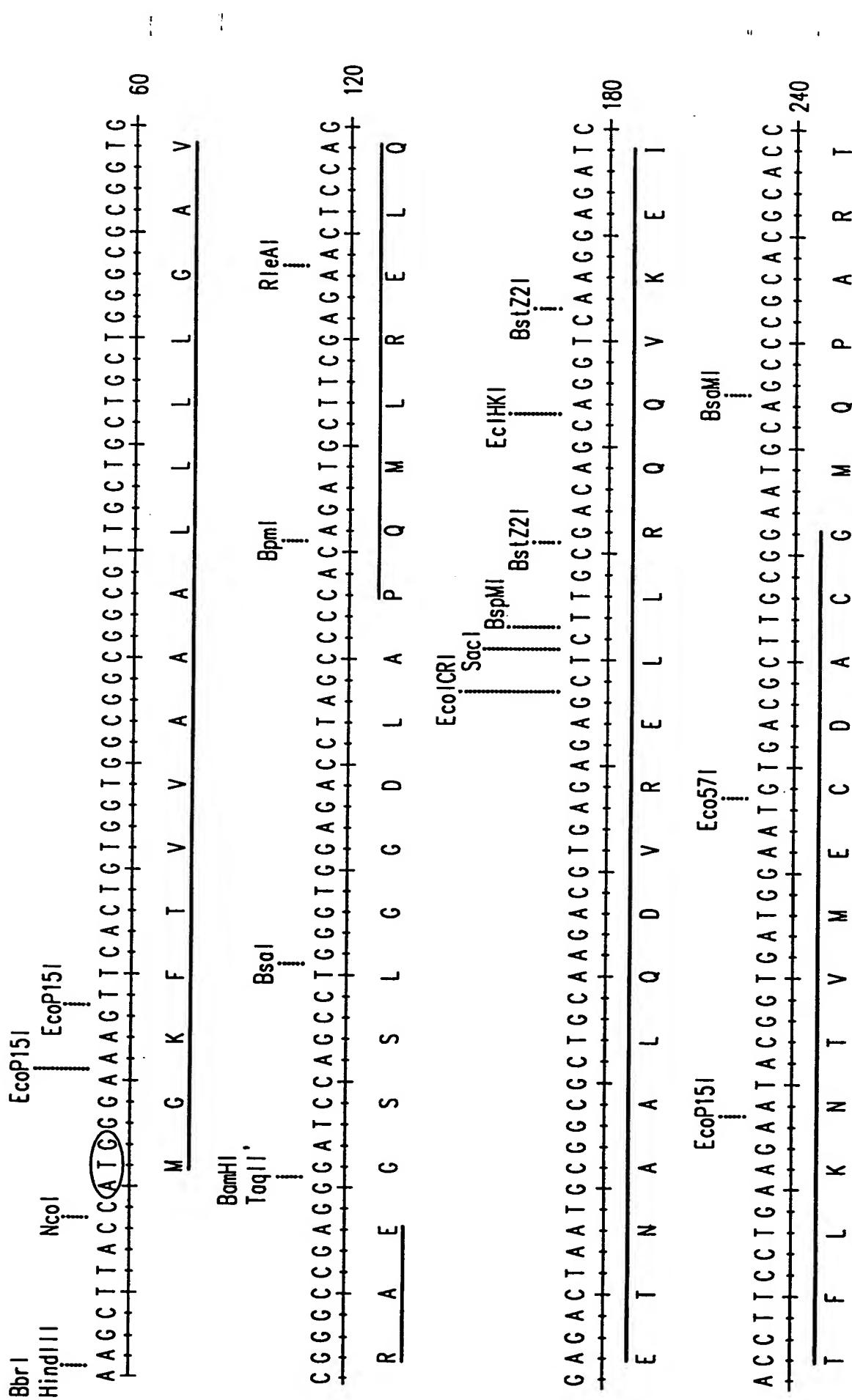


FIG. 1C

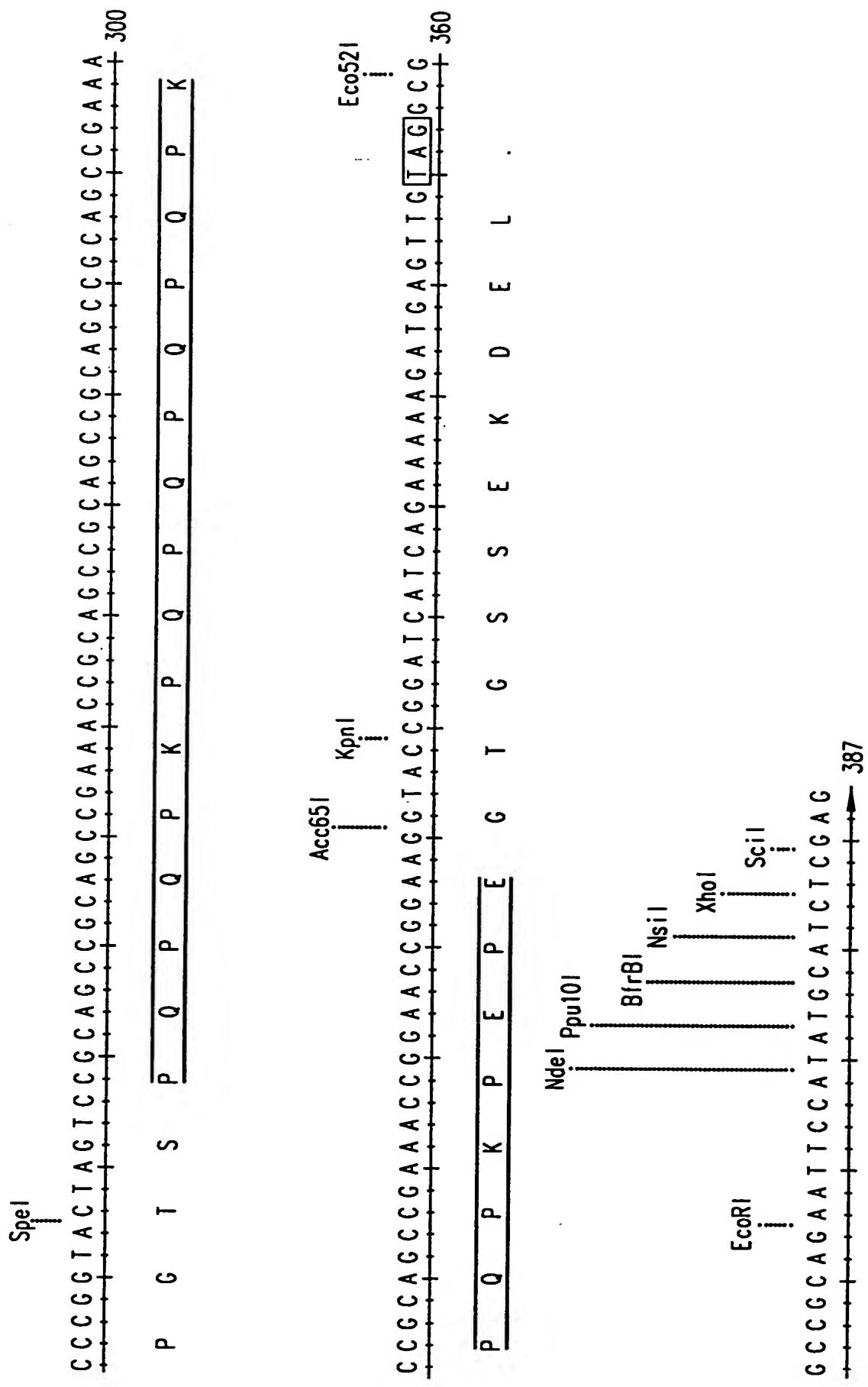


FIG. 1D

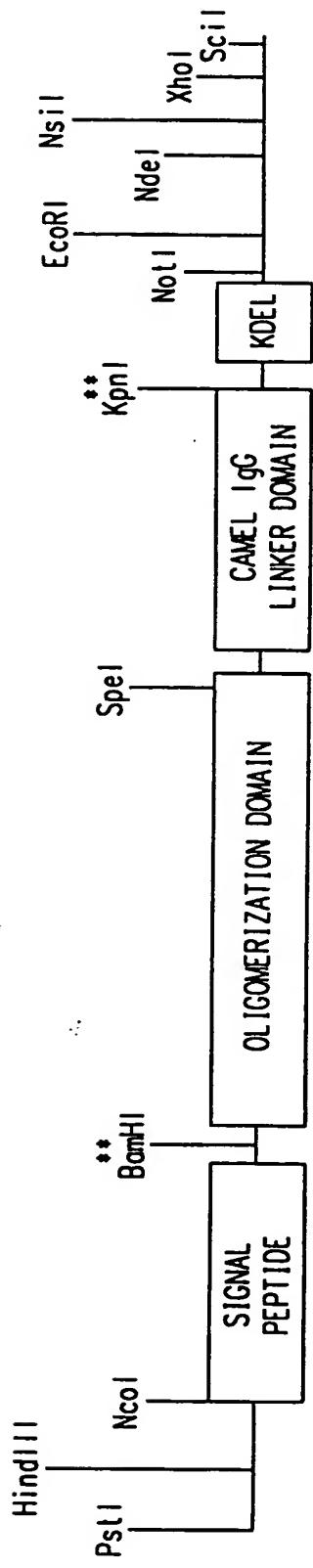


FIG. 2A

SIGNAL CLEAVAGE SITE



M G K F T V V A A L L L G A V R A E - G S S -

L G G D C C C - P Q M I R E L Q E T N A A L Q D V R E L L R Q Q V K E I T F L K N T V M E C D A C G - M Q P A R T P G T S -

P Q P Q P K P Q P Q P K P Q P K P E P E - G T G S S E - K D E L

FIG. 2B

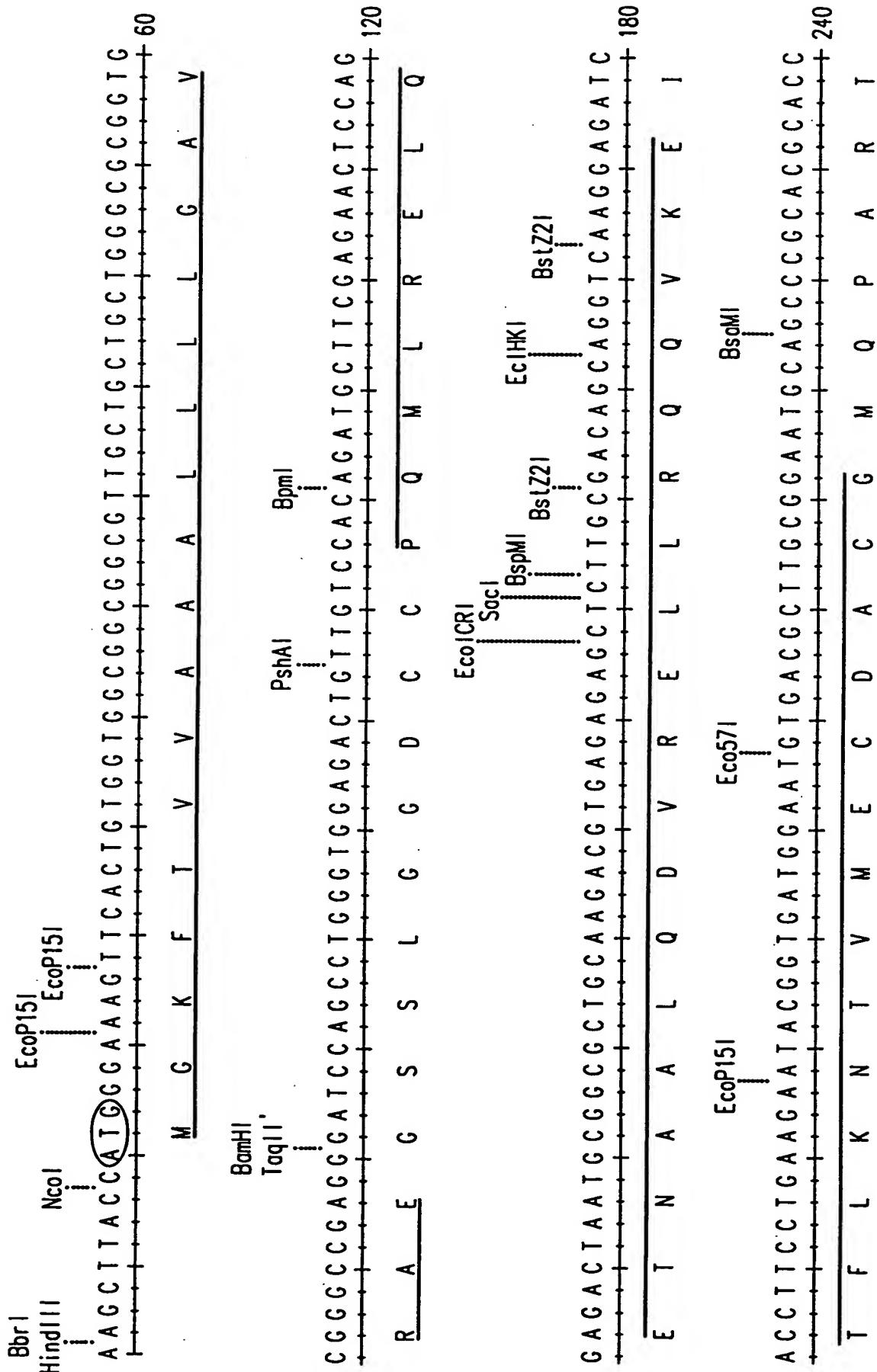


FIG. 2C

Spel

CCCCGTACCTAGCTCCGAGCCGACCCGAAACCCGAGCCGAGCCGAGCCGAA

P G T S Q P K Q P Q P Q P Q P Q P K

CCCCA CCCC A A C C G A A C C G G A A G G T A C C G G A T C A G A A A A G A T G A C T T G T A G G C C
 Acc65| KpnI| Eco52|

P O P K P E P E

Diagram illustrating a DNA sequence with restriction enzyme cleavage sites and a poly-A tail.

The sequence is: **GGGGAGAATTCCATATGATCTCGAG**

Key features include:

- Restriction Enzyme Sites:** NdeI, Ppu10I, BfrBI, NsiI, XbaI, SceI, and EcoRI.
- Poly-A Tail:** Represented by a series of vertical dots at the 3' end of the sequence.

FIG. 2D

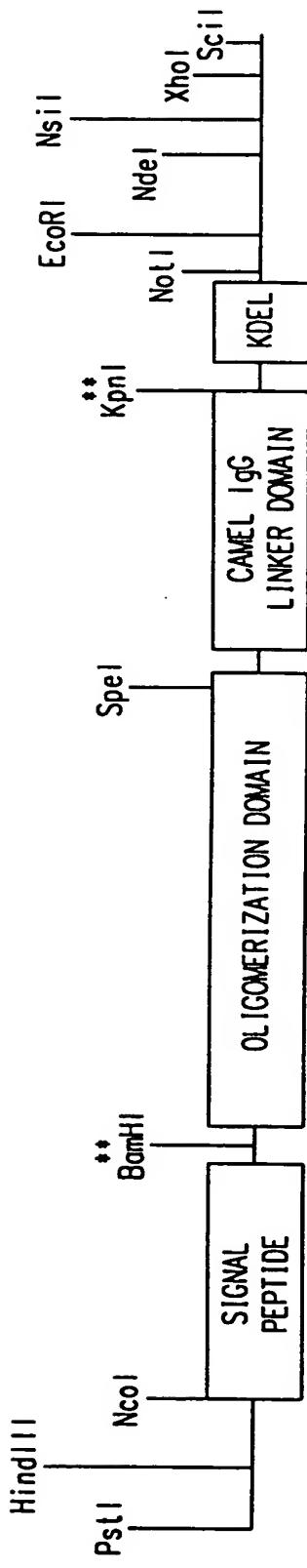


FIG. 3A

SIGNAL CLEAVAGE SITE

↓

M G K F I V V A A L L L G A V R A E - G S S -

L C C D C C - K A L V T Q L T L F N Q I L V E L R D D I R D Q V K E M S L I R N T I M E C Q V C C -

P Q P Q P K P Q P Q P Q P K P Q P K P E P E - G T G S S E - K D E L

FIG. 3B

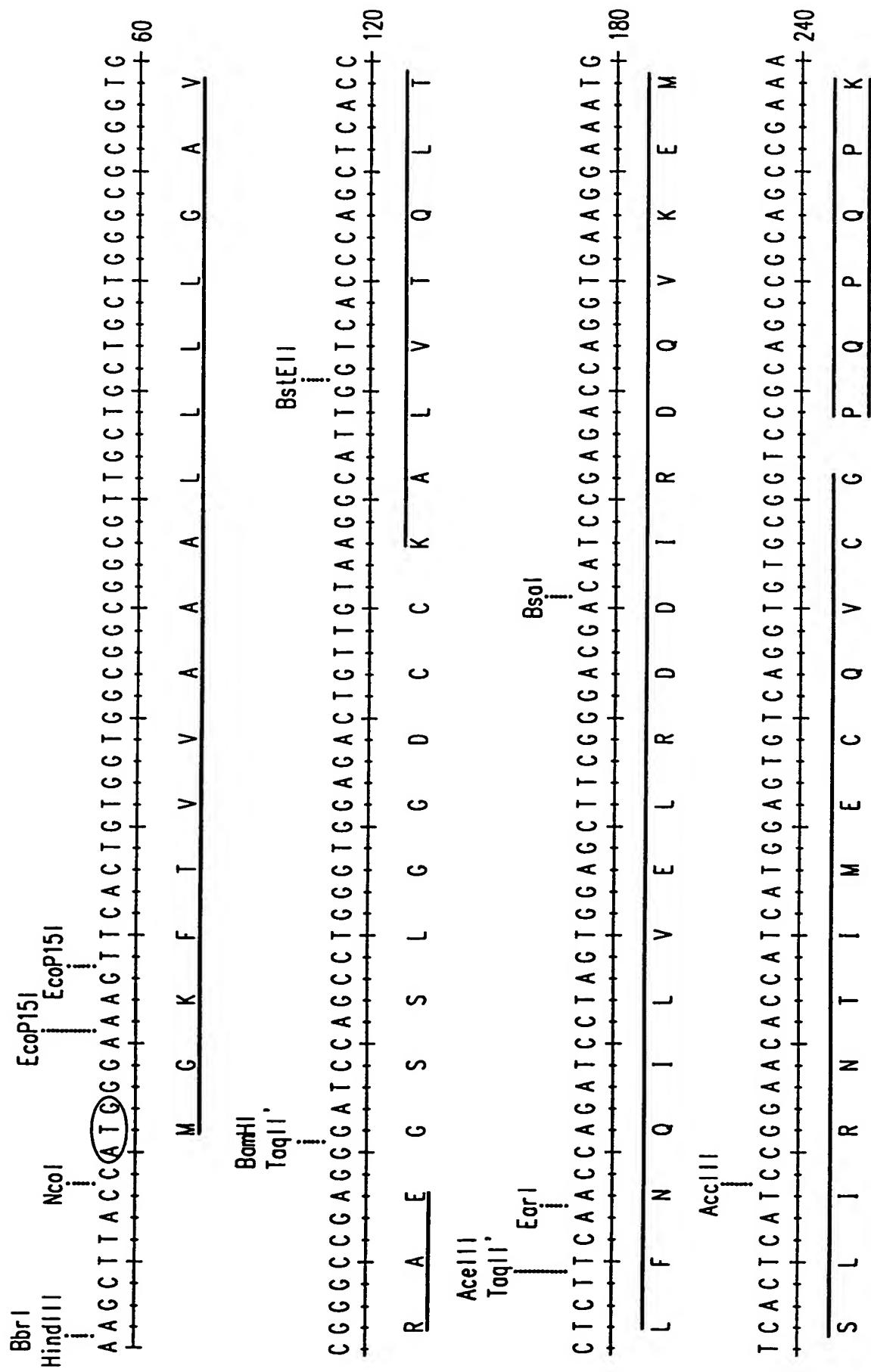


FIG. 3C

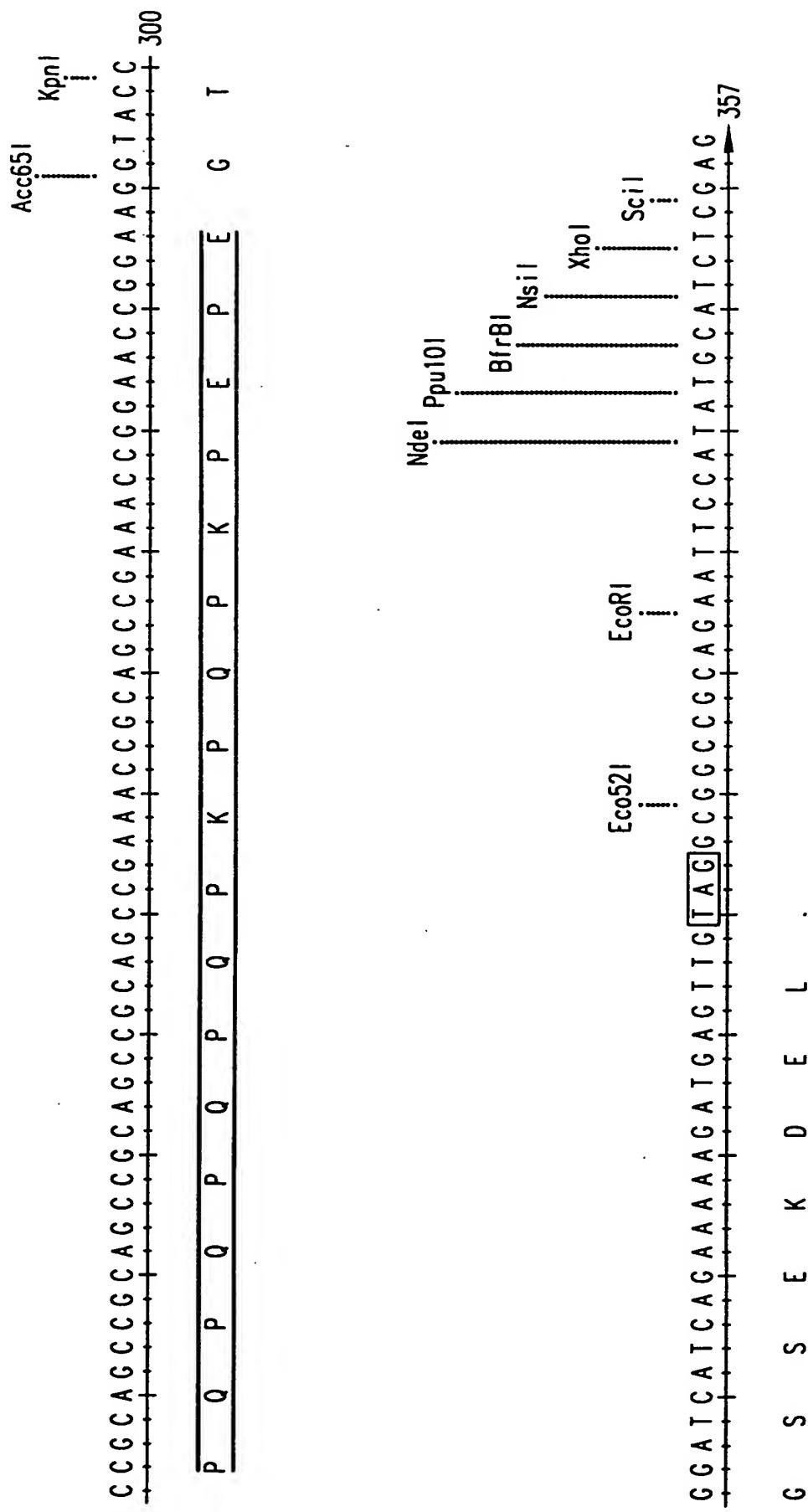


FIG. 3D

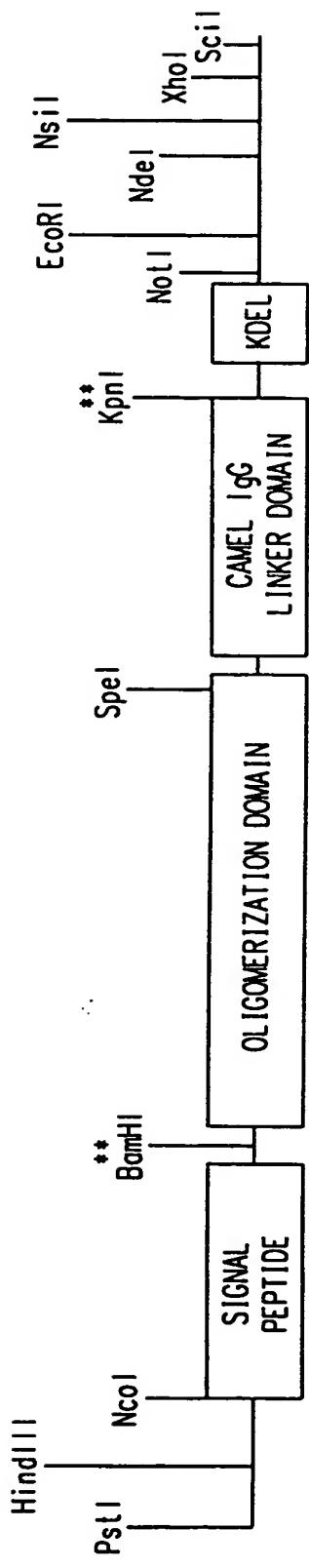


FIG. 4A

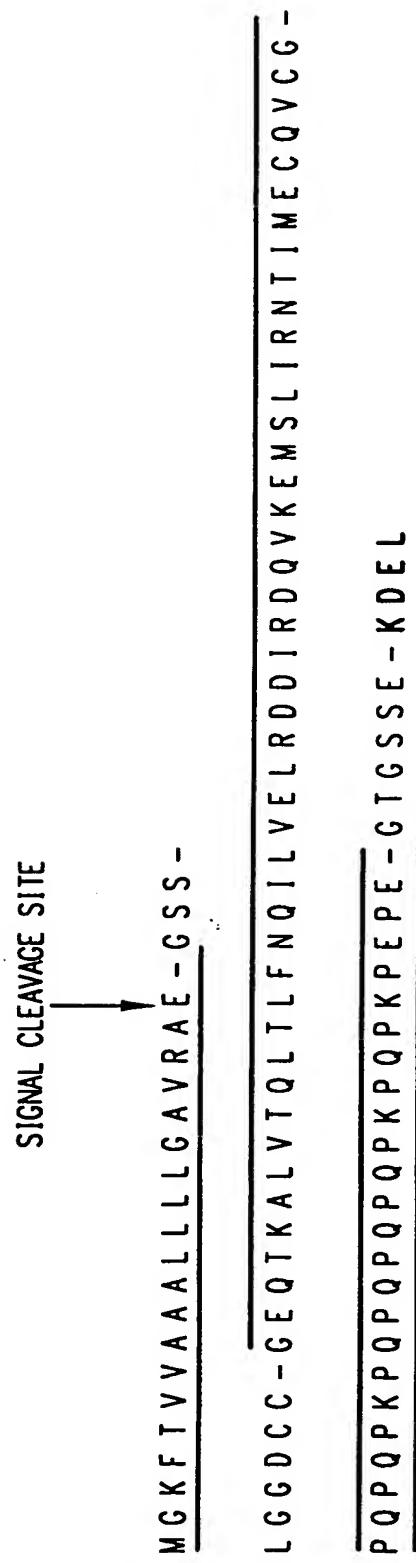


FIG. 4B

Sequence diagram showing restriction enzyme cleavage sites and sequencing gel results for a DNA fragment. The sequence is 60-120 bp, 120-180 bp, and 180-240 bp. Enzymes used include BbvI, HindIII, NcoI, EcoP15I, BamHI, TaqI, RleAI, BstXI, BstEII, BsoI, AcelI, TagI, and EgrI. Sequencing gel lanes are labeled M, G, K, F, T, V, A, A, L, L, G, A, V, T, Q, L, T, L, F, N, Q, I, L, V, E, L, R, D, I, R, D, Q, V, K, E, M, S, L, I, R, N, T, I, M, E, C, Q, V, C, G, P, Q.

FIG. 4C

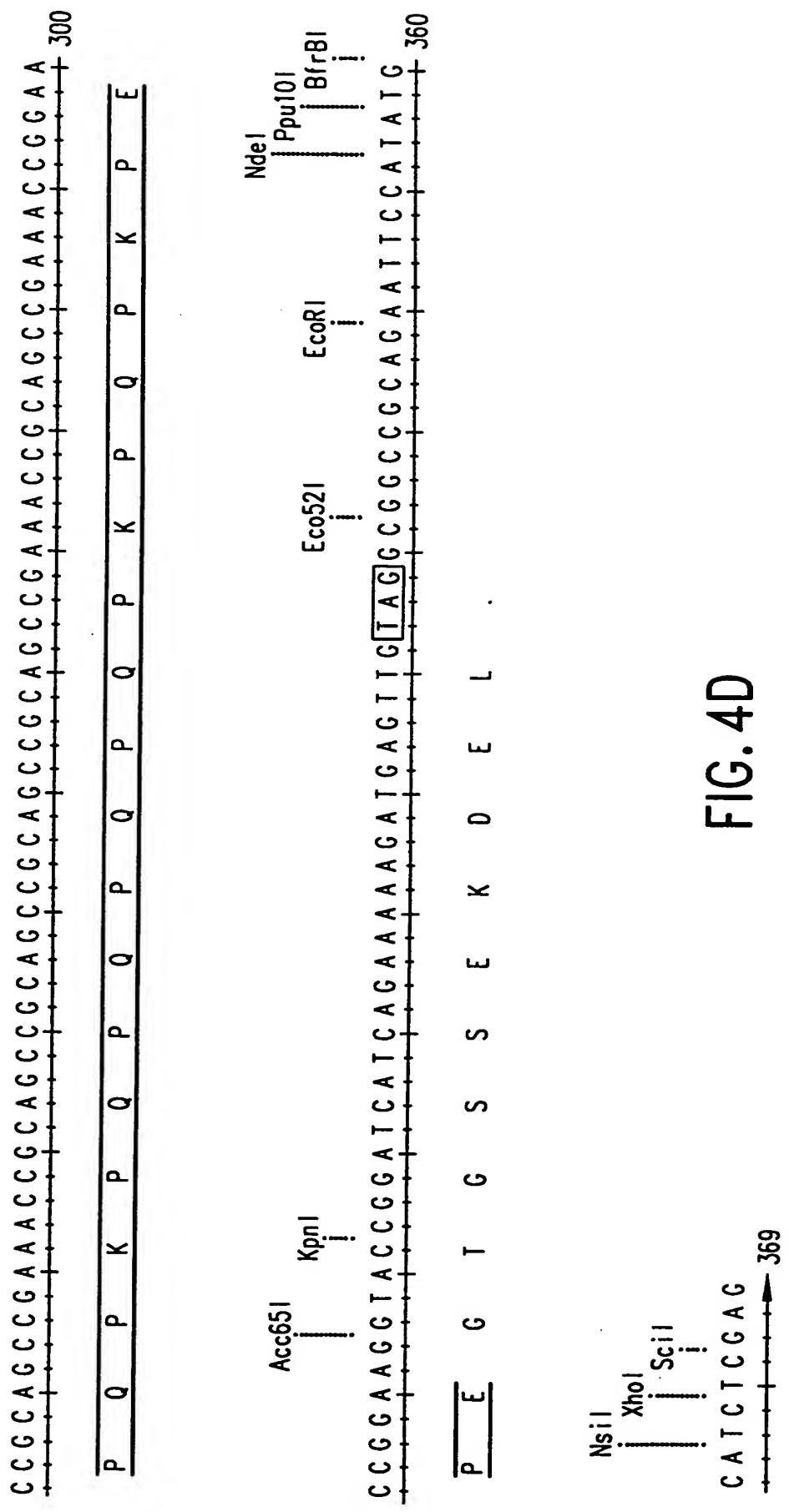


FIG. 4D

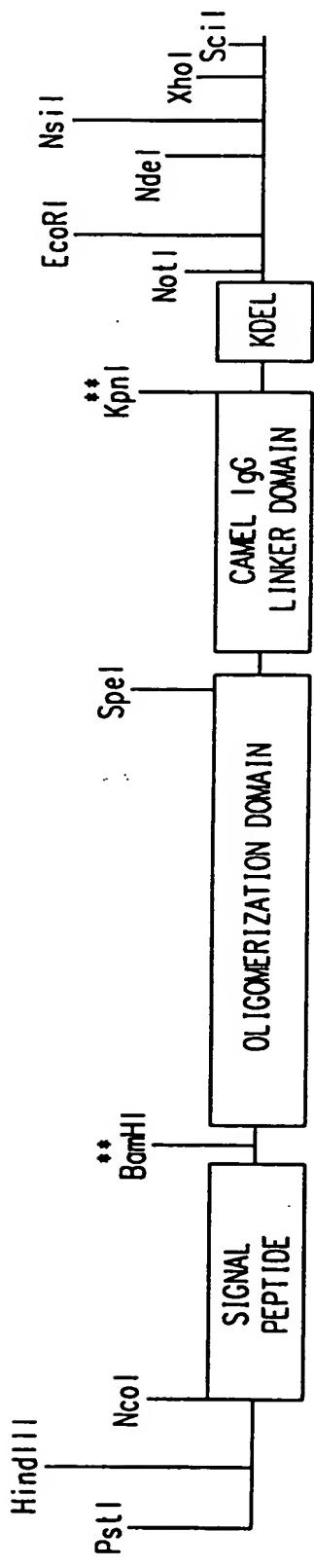


FIG. 5A

SIGNAL CLEAVAGE SITE

↓

M G K F T V V A A A L L L G A V R A E - G S S -

L G G D C C - G D V S R Q L I G Q I T Q M N Q M L G E I R D V M R Q Q V K E T M F L R N T I A E C Q A C G -

P Q P Q P K P Q P Q P K P Q P K P E P E - G T G S S E - K D E L

FIG. 5B

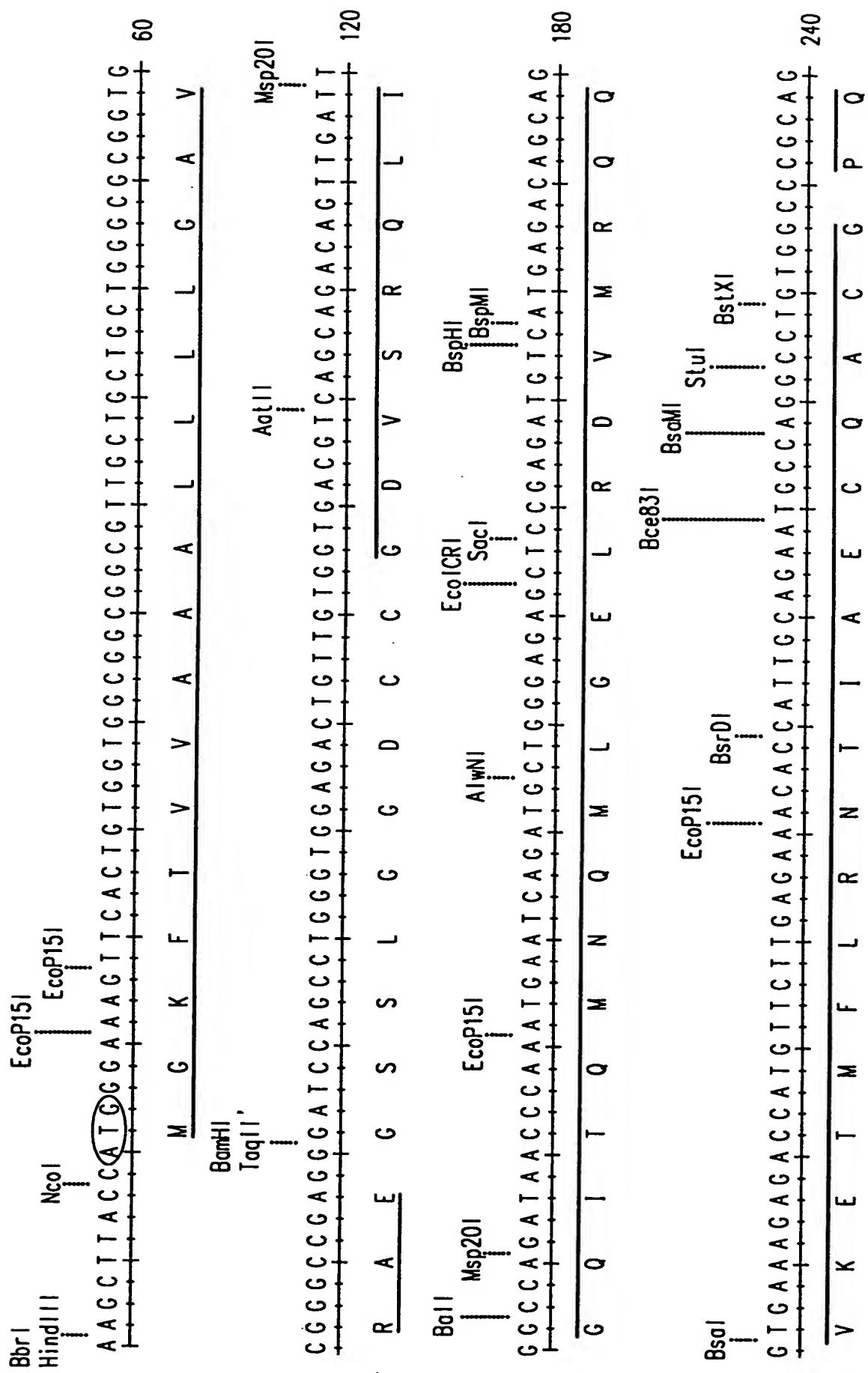


FIG. 5C

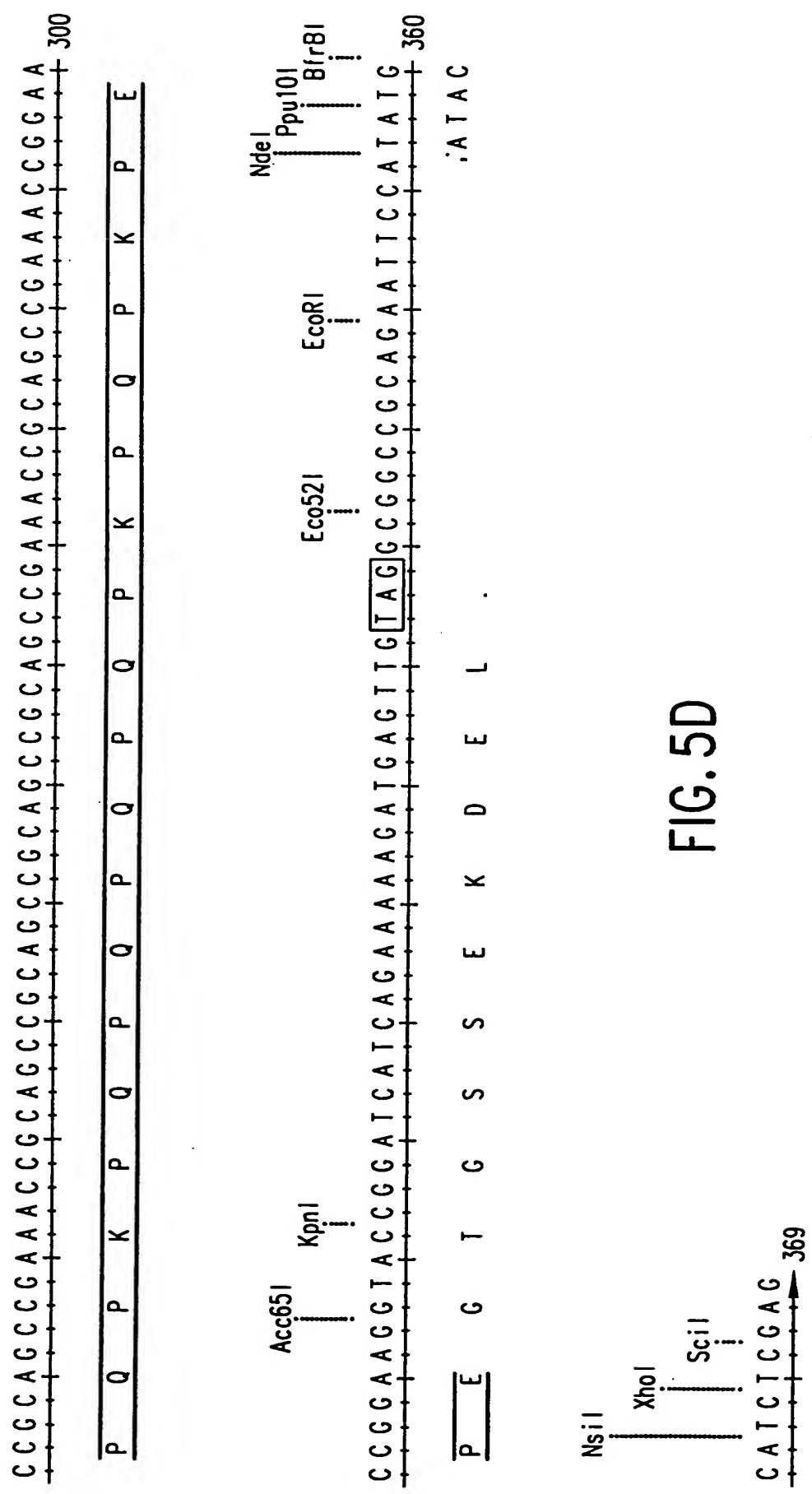


FIG. 5D

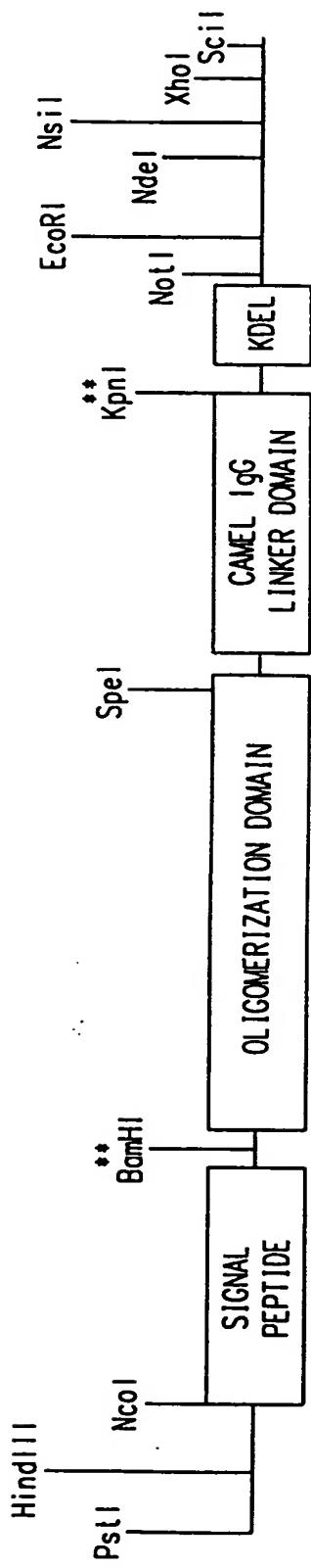


FIG. 6A

SIGNAL CLEAVAGE SITE

↓

M R Y M I L G I L L A A V C S A A K K - G S S -

L G G D C C - S D L C P Q M L R E L Q E T N A A L Q D V R D W L R Q Q V R E I T F L K N T V M E C D A C G -

P Q P Q P K P Q P Q P Q P K P Q P K P E P E - G T G S S E - K D E L

FIG. 6B

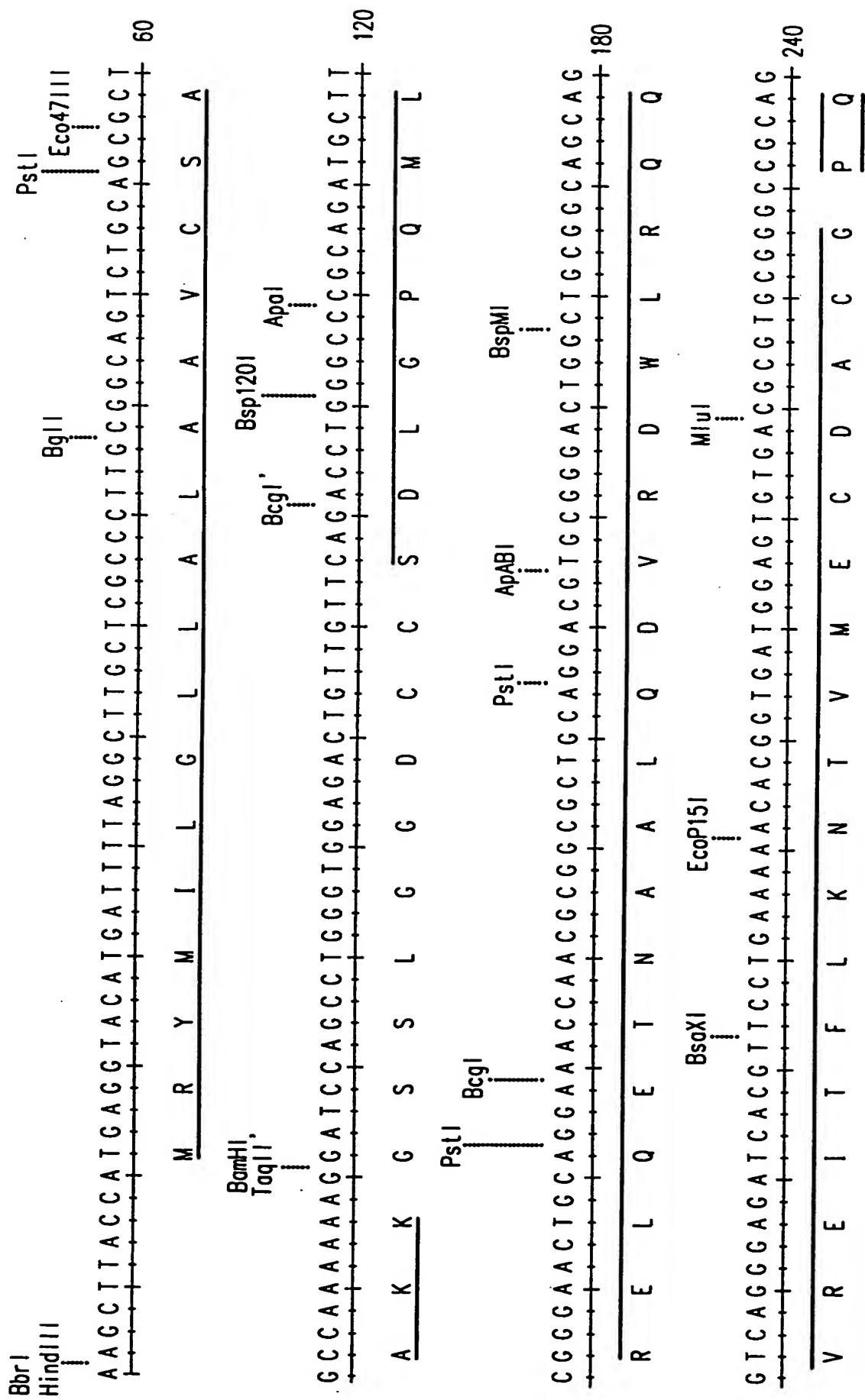


FIG. 6C

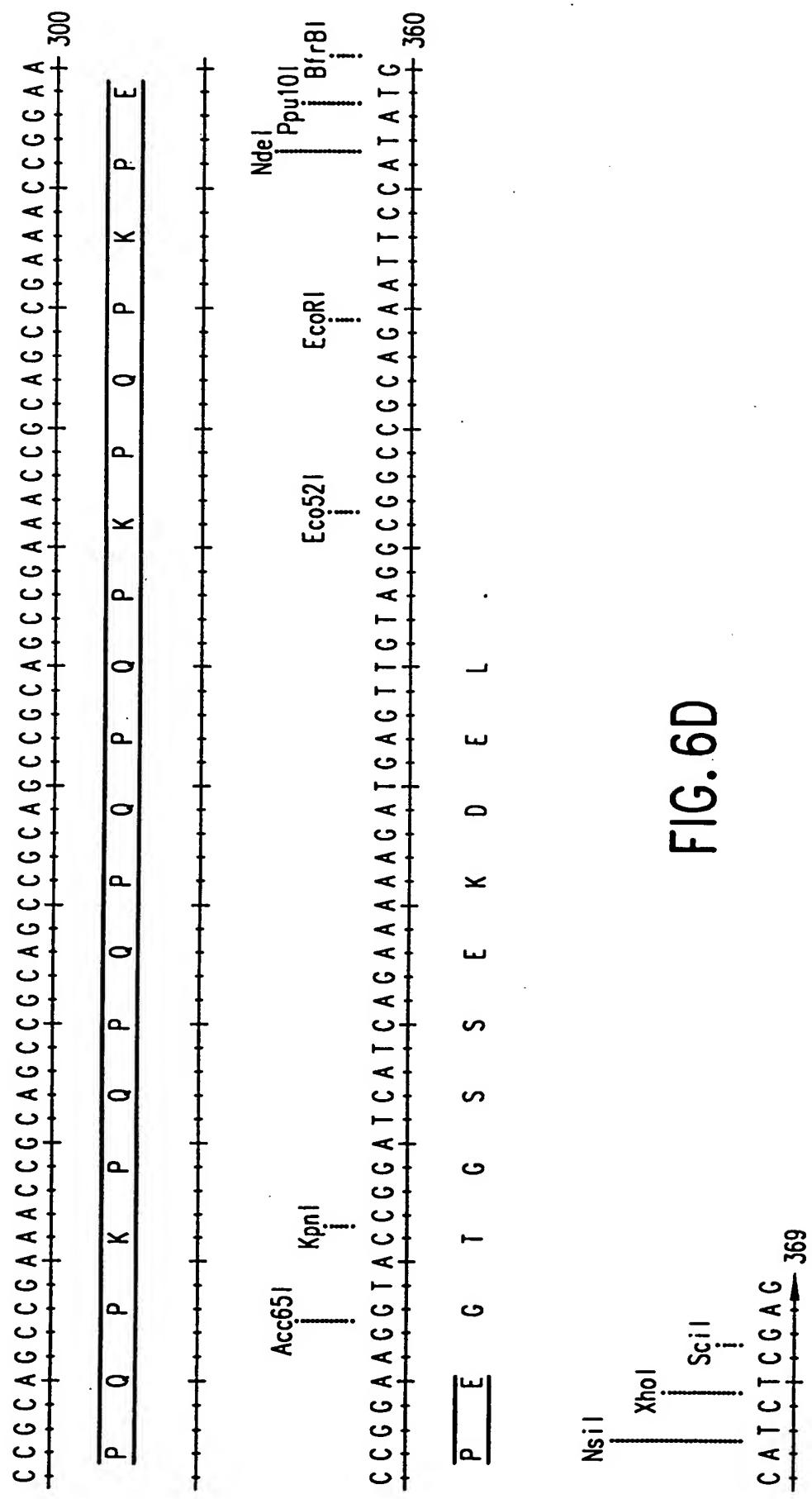


FIG. 6D

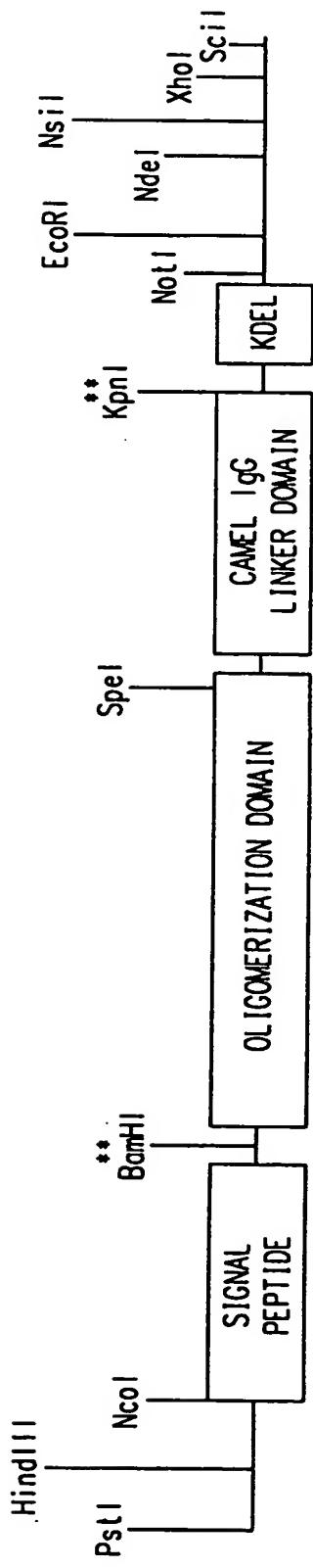
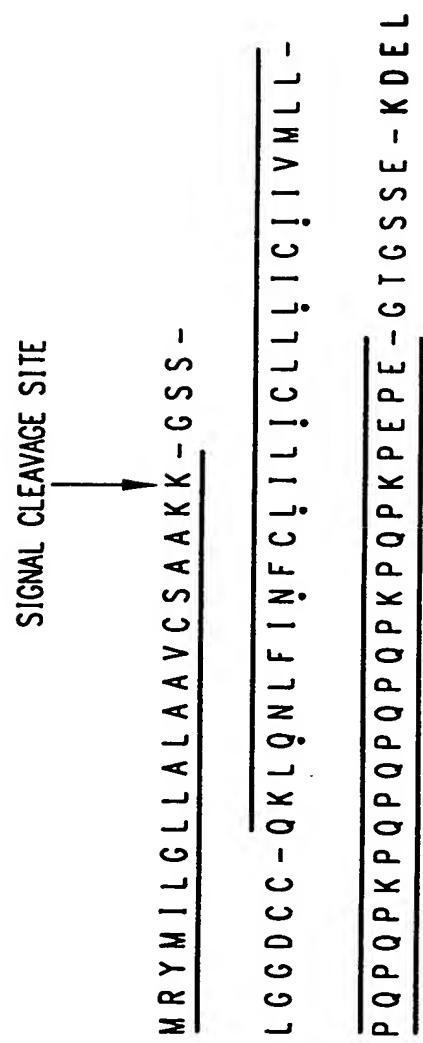


FIG. 7A



- RESIDUES CRITICAL FOR PENTAMER FORMATION

FIG. 7B

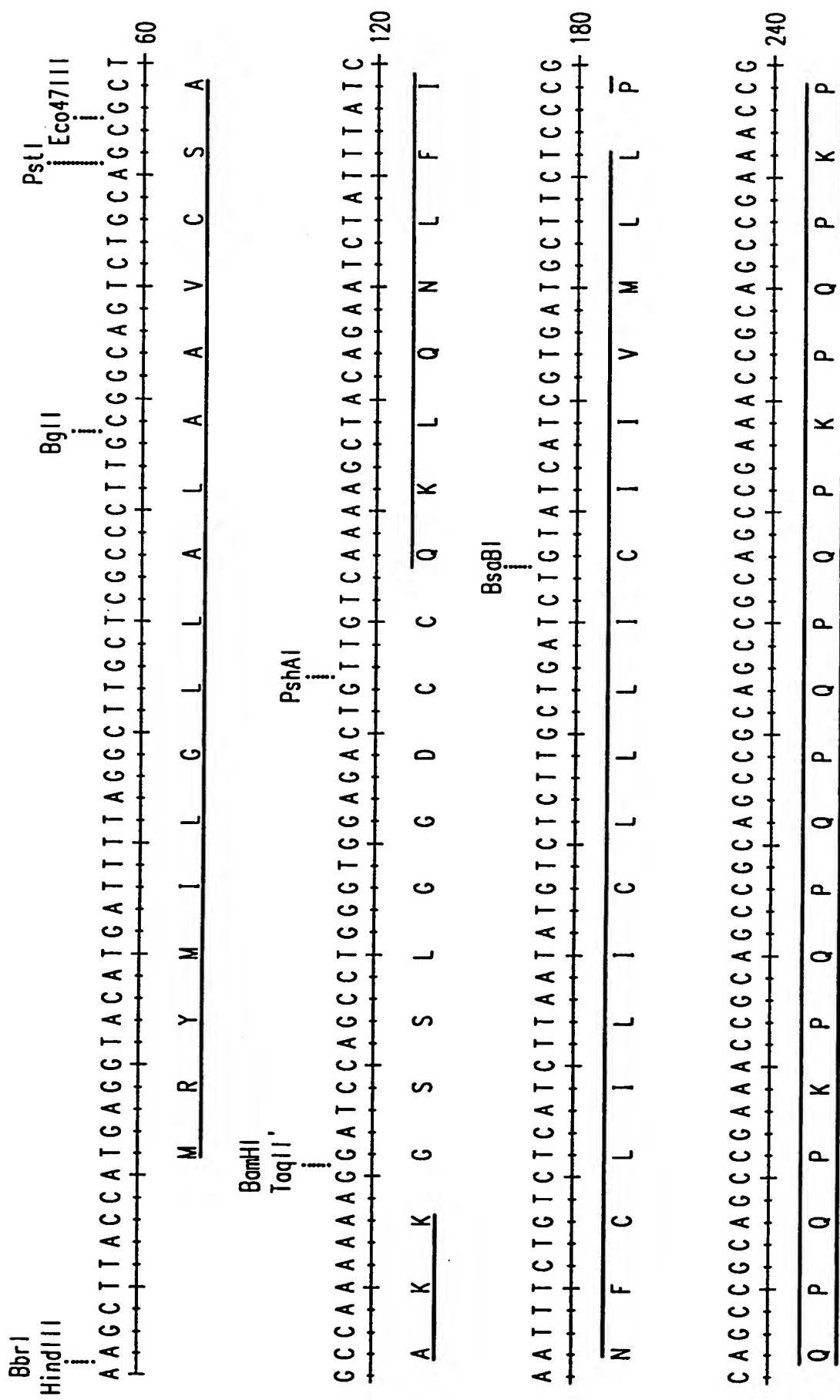


FIG. 7C

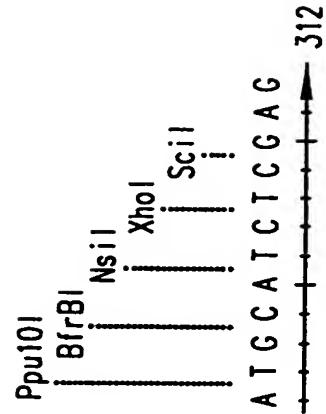
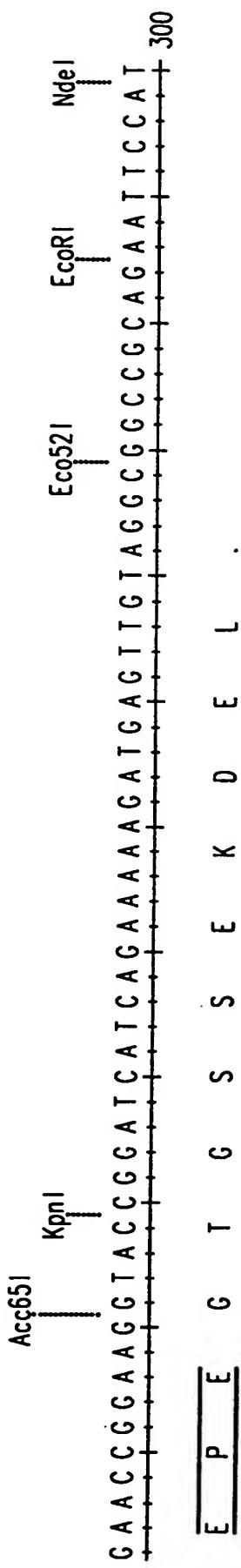


FIG. 7D

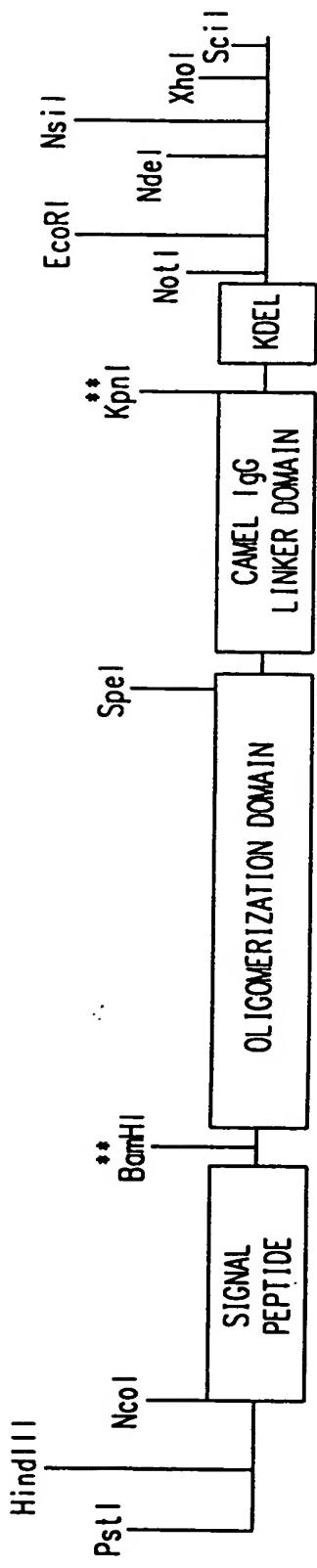


FIG. 8A

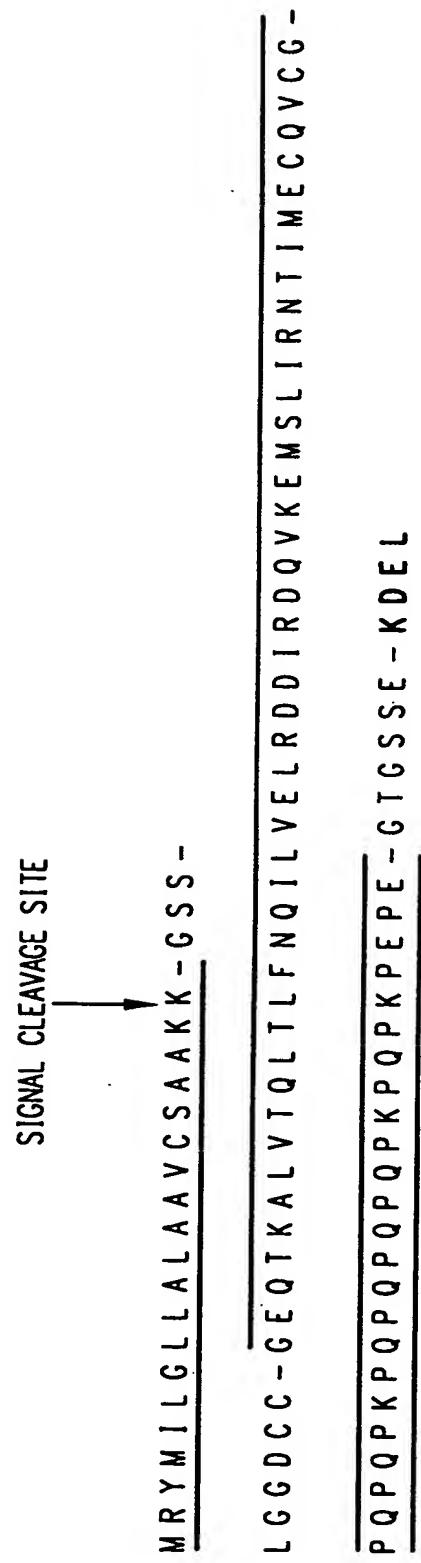


FIG. 8B

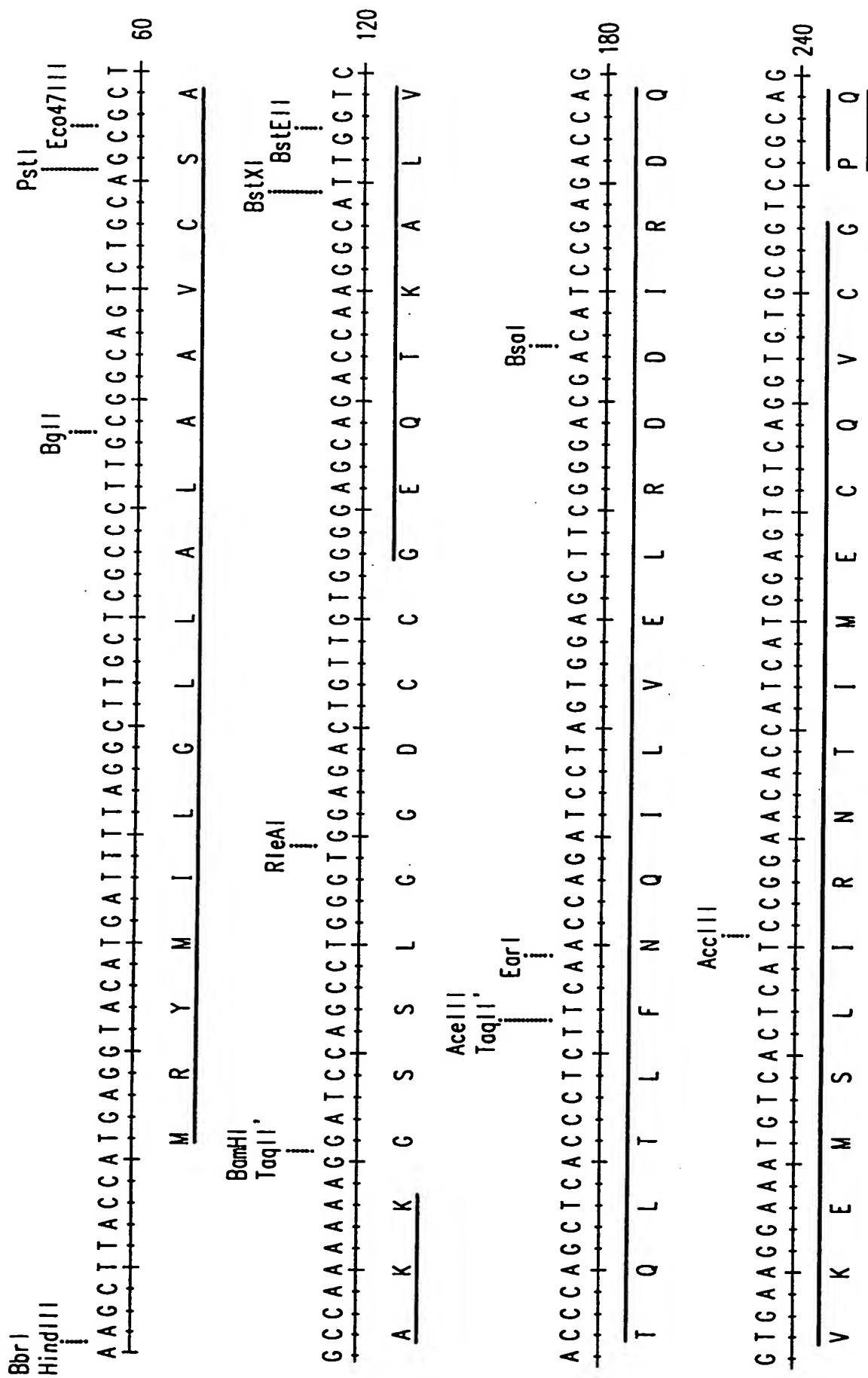


FIG. 8C

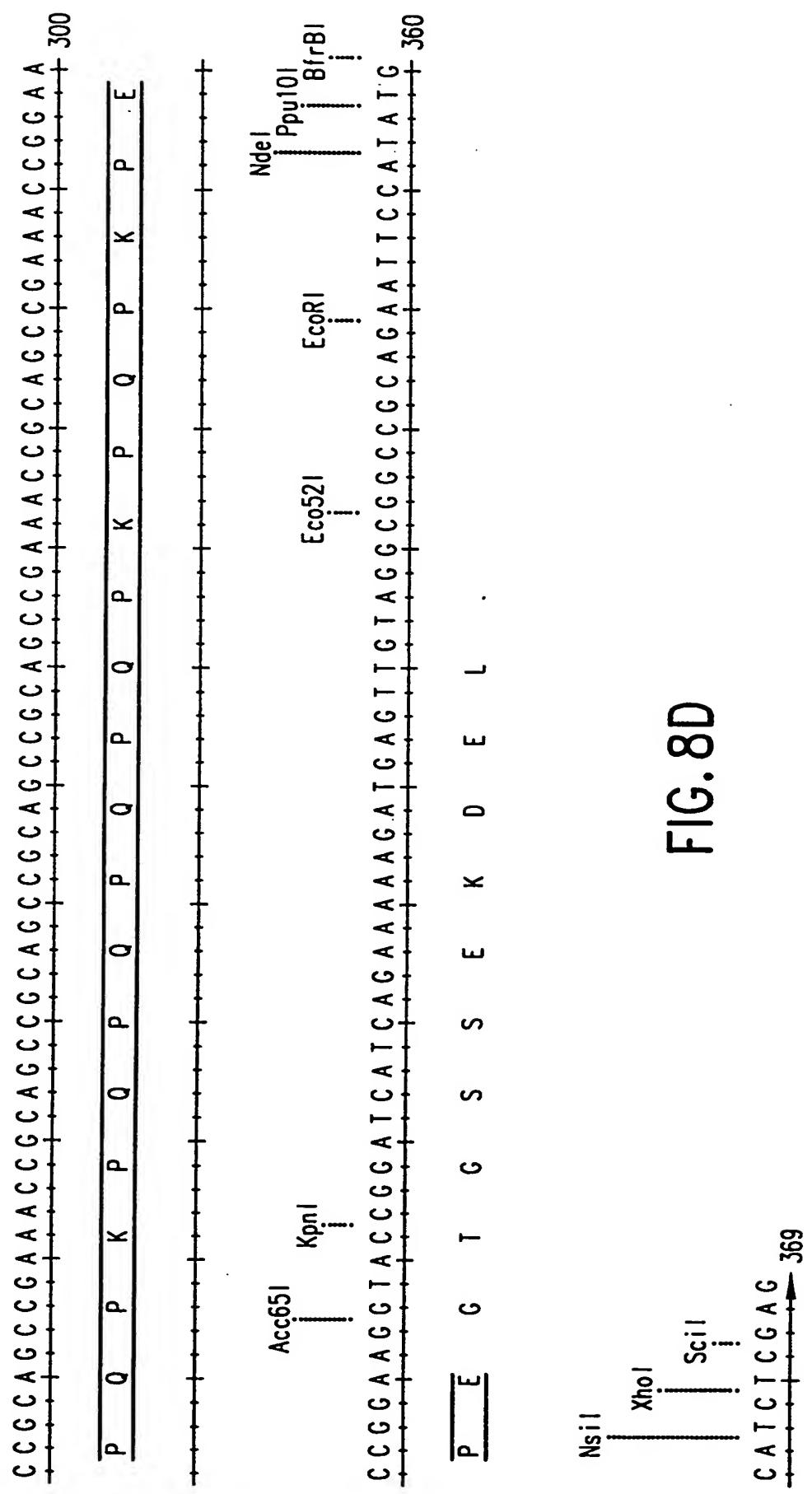


FIG. 8D

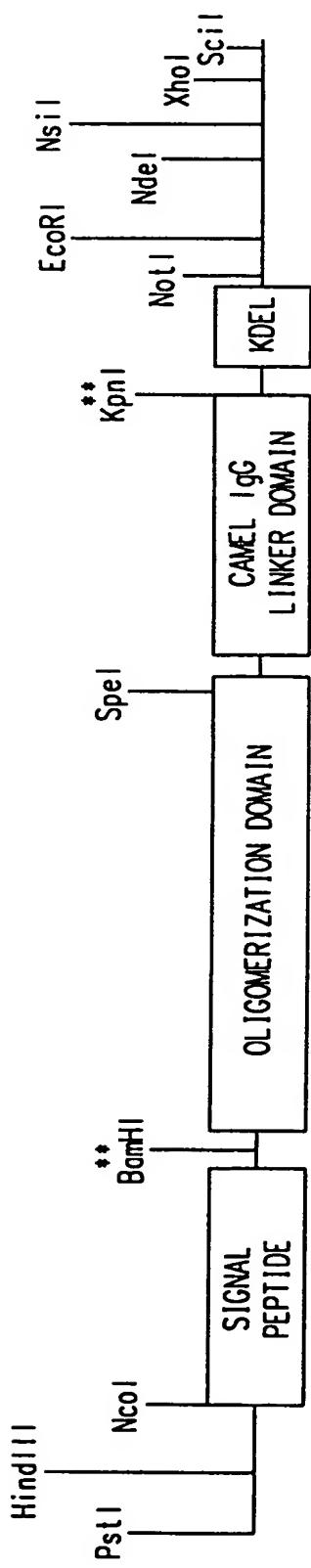


FIG. 9A

SIGNAL CLEAVAGE SITE

↓

M R Y M I L G L L A A V C S A A K K - C S S -

L G G D C C - C D F N R Q F L G Q M T Q L N Q L L G E V K D L L R Q Q V K E T T S F L R N T I A E C Q A C G -

P Q P Q P K P Q P Q P K P E P E - C T G S S E - K D E L

FIG. 9B

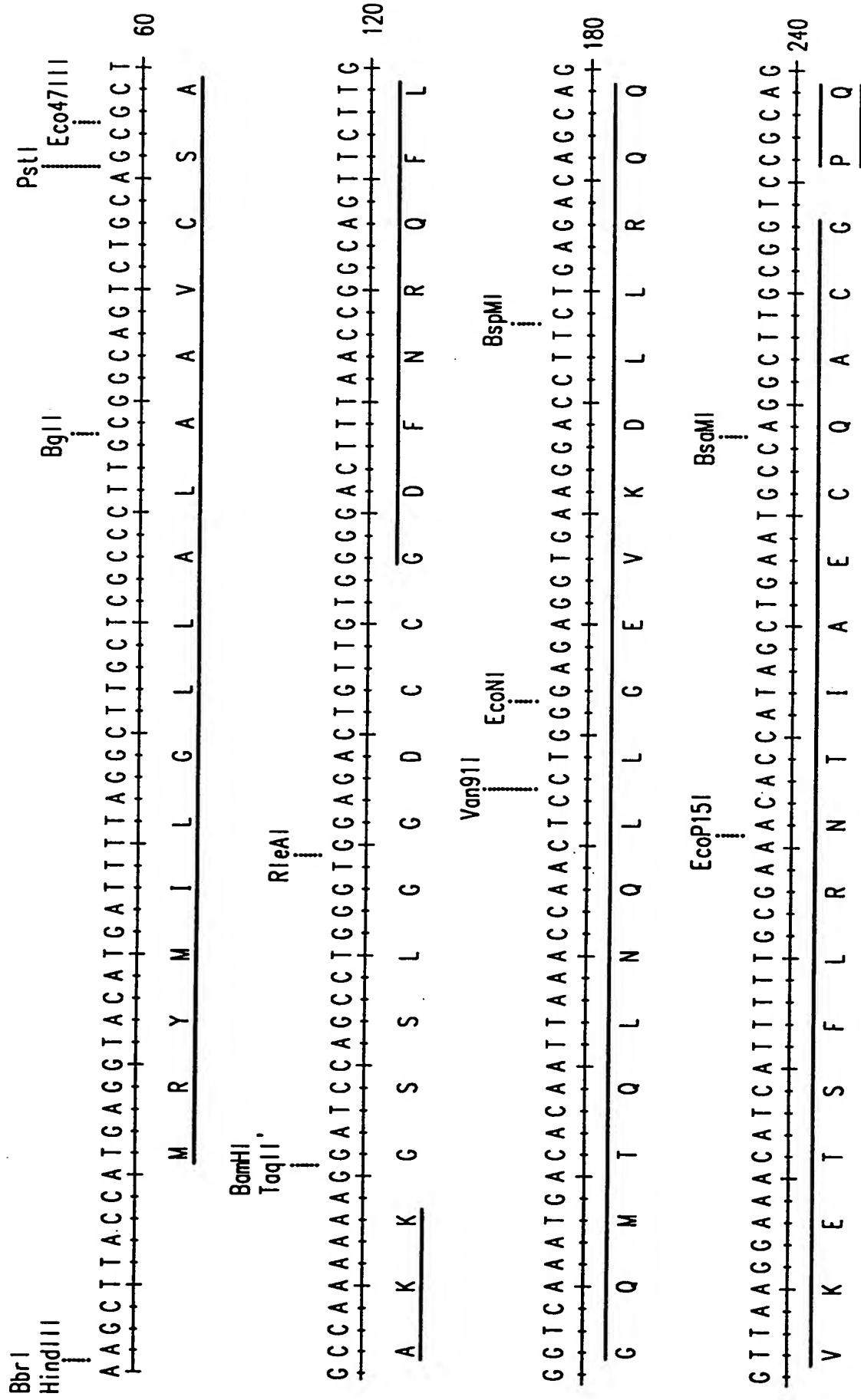


FIG. 9C

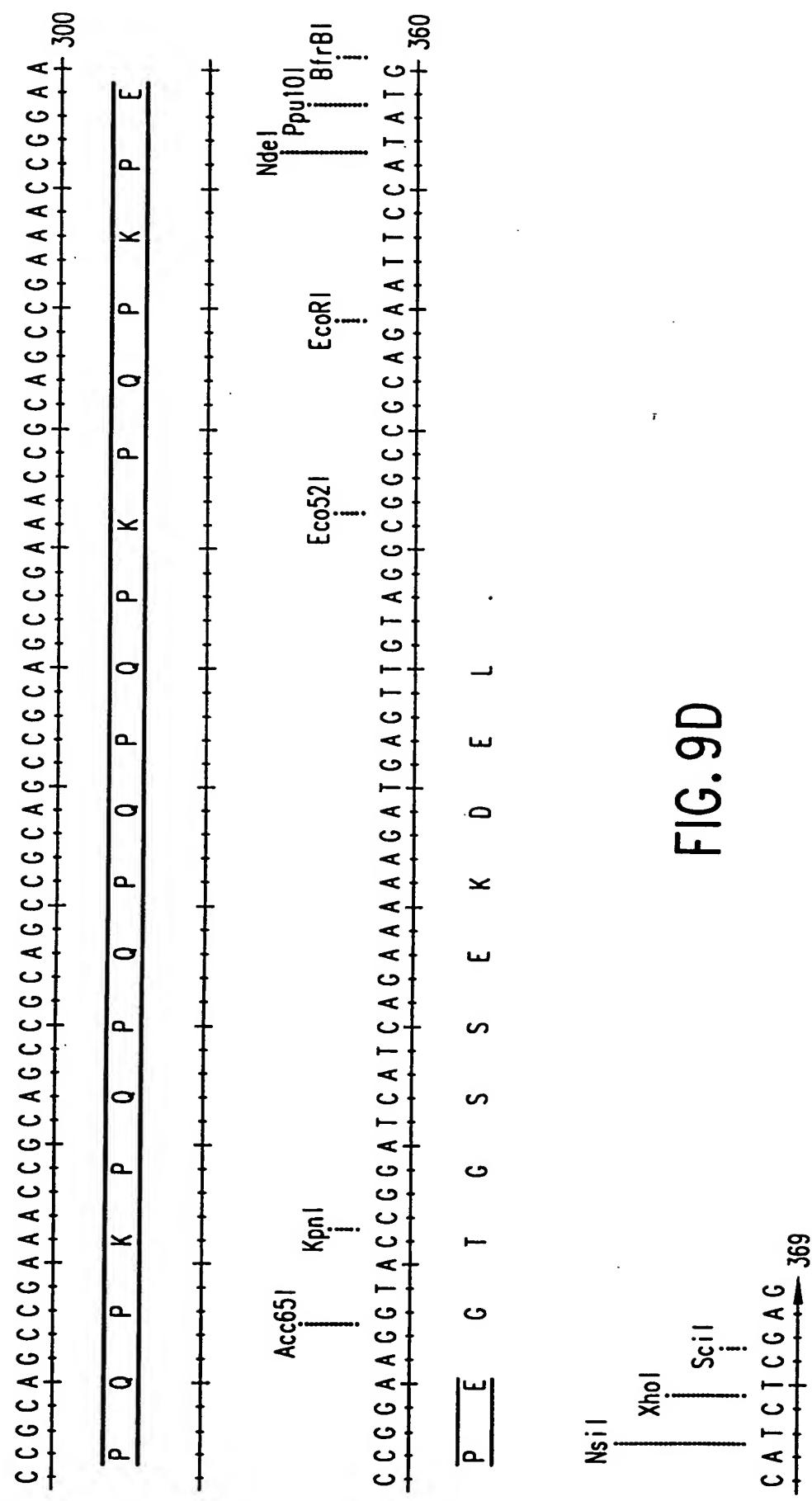


FIG. 9D

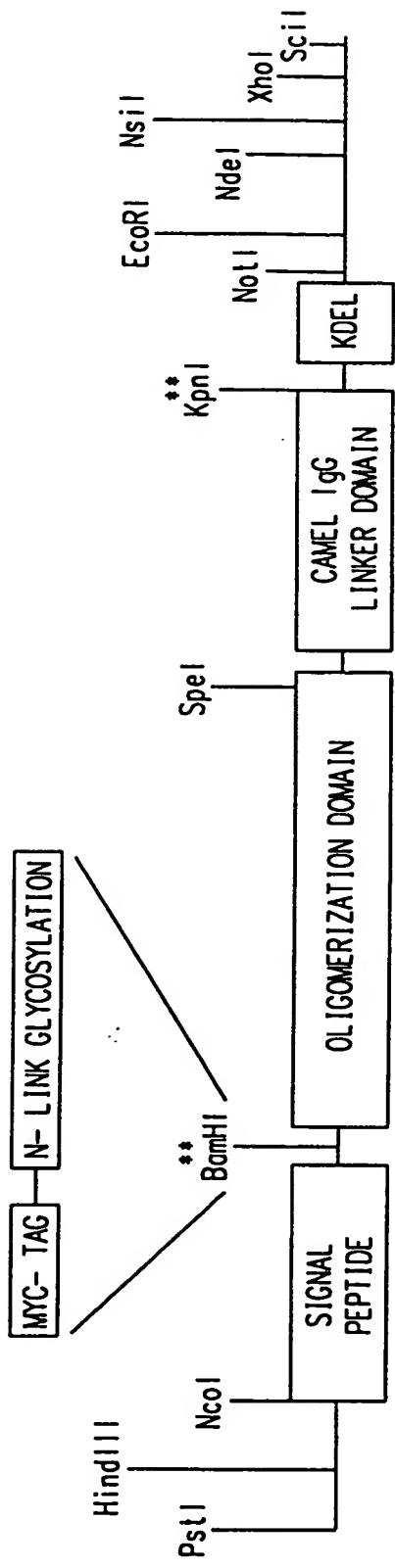


FIG. 10A

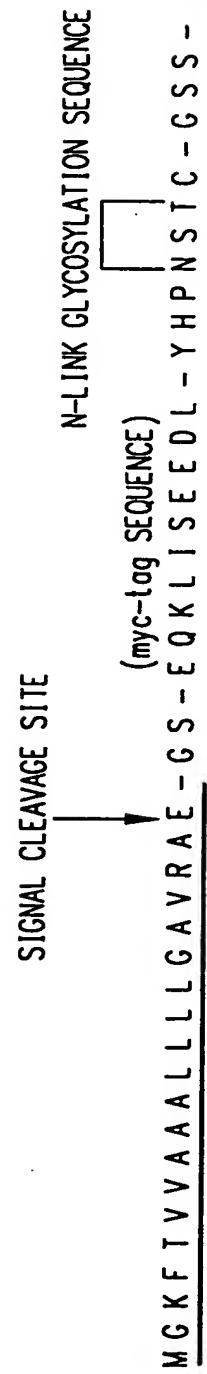


FIG. 10B

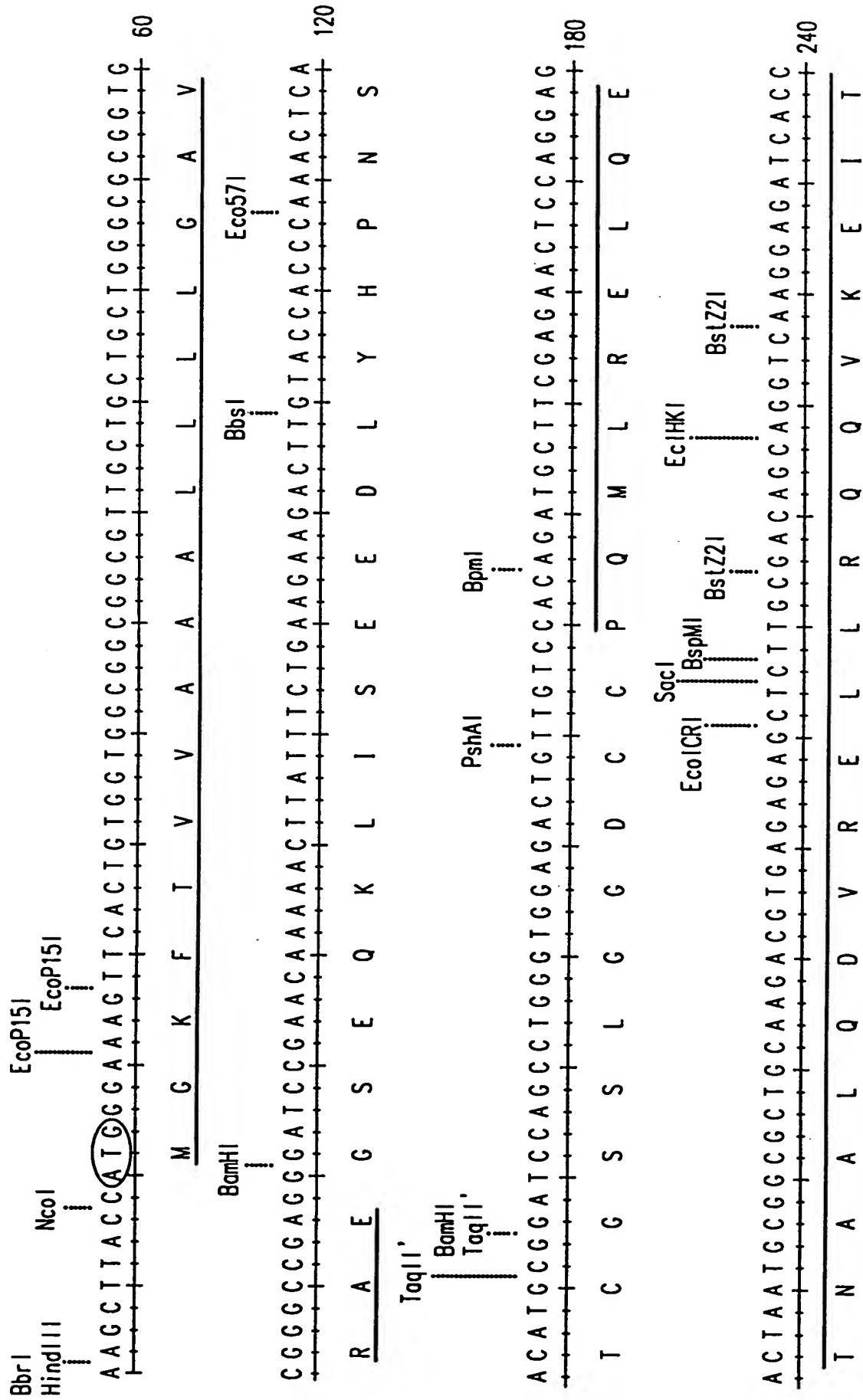


FIG. 10C

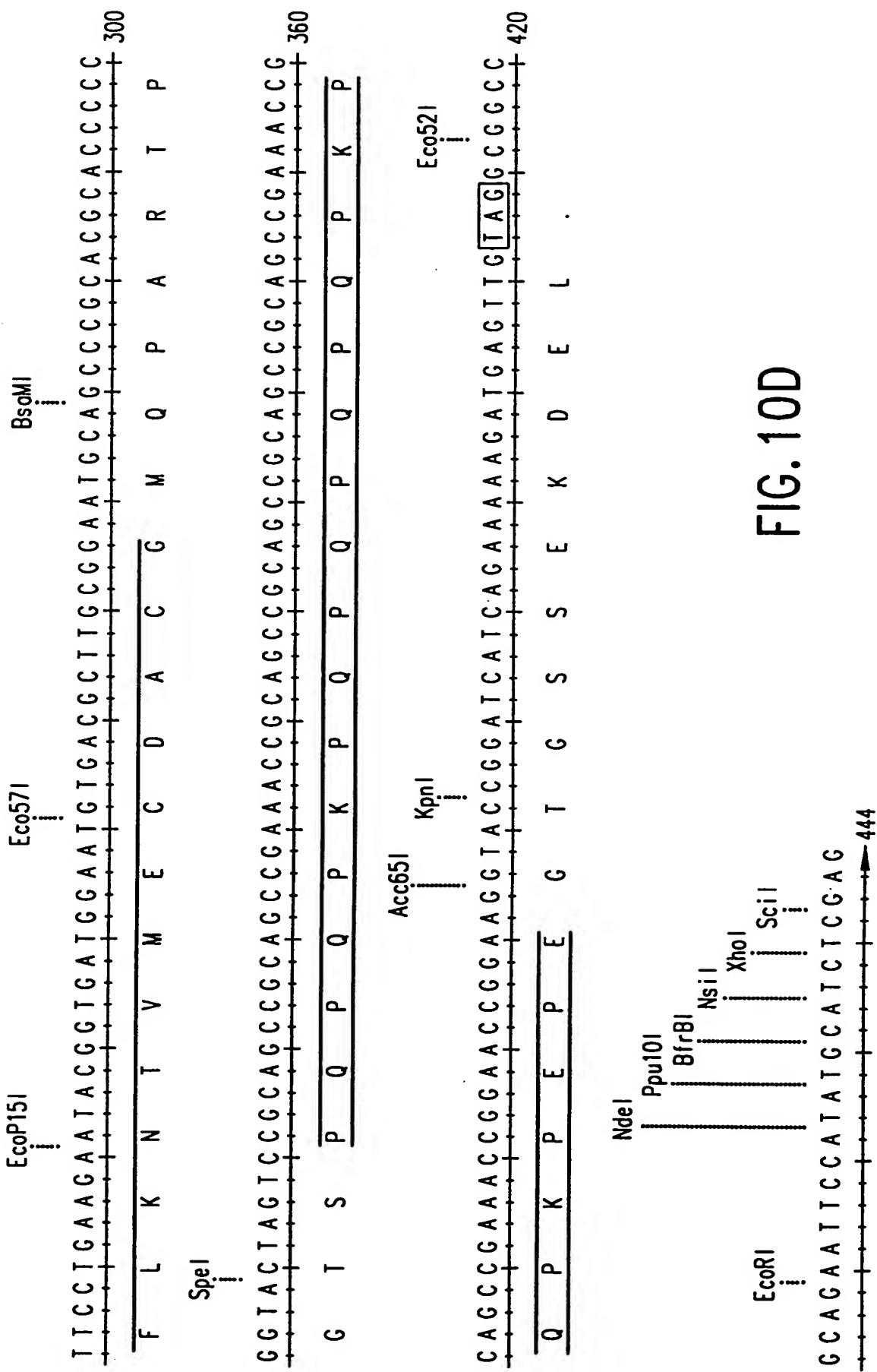


FIG. 10D